

Summary of Landfill Cap Configurations
Allied Landfill (OU1)
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site

Scenario	Net Increase from FS Costs	Total Cost	Estimated Footprint (acres) ^a	Estimated Height (feet above existing grade) ^b	Additional Consolidation Volume (cubic yards)	Estimated Additional Backfill (cubic yards)	Estimated Offsite Disposal or Treatment (cubic yards)	Total Capital Cost	Operation and Maintenance Cost ^{c,d}	Groundwater and Soil Gas Monitoring Cost ^{c,d}	Total Cost ^d	Net Increase from FS Alternative 2B Cost ^d
Alternative 2B (Consolidation)	-	\$41,000,000	43	12	-	-	-	\$36 million	\$1.8 million	\$3.7 million	\$41 million	-
Alternative 2C (2B with Incineration)			43	12	-	-	15,000	\$57 million	\$1.8 million	\$3.7 million	\$62 million	\$21 million
Alternative 2B (Hill)	\$14,000,000	\$55,000,000	20	74	650,000	200,000	-				\$55 million	\$14 million
Alternative 2B (Hill, T&D of Outlying Area)	\$18,000,000	\$59,000,000	20	70	650,000	200,000	100,000				\$59 million	\$18 million
Alternative 2B (Hill, T&D of Monarch)	\$26,000,000	\$67,000,000	20	54	650,000	200,000	170,000				\$67 million	\$26 million
Alternative 2D (Crescent)	\$18,000,000	\$59,000,000	23	45	700,000	215,000	-	\$52 million	\$2.7 million	\$3.7 million	\$59 million	\$18 million
Alternative 2B (Triangle)	\$16,000,000	\$57,000,000	23	41	700,000	215,000	-				\$57 million	\$16 million
Alternative 2B (Triangle with residuals buried)	\$15,000,000	\$56,000,000	23	31	485,000	-	-				\$56 million	\$15 million
Alternative 2B (35-Acre Footprint)	\$6,000,000	\$47,000,000	35	16	100,000	34,000	-				\$47 million	\$6 million
Alternative 2E (35-Acre Footprint)	\$6,000,000	\$47,000,000	35	16	100,000	34,000	-	\$42 million	\$1.8 million	\$3.7 million	\$47 million	\$6 million

^a Estimated footprint is limited to the extents of the cap and does not include additional area required for stormwater management (detention ponds and drainage ditches).

^b Estimated height is calculated as an average thickness distributed across the capped area. Actual thickness of consolidated material will vary with location to create appropriate grades and slopes across the entire cap.

^c Net present value costs are calculated based on 30-year duration with a discount rate of 1.1 percent.

^d These cost estimates are assumed to represent the actual installed cost within the range of -30 percent to +50 percent of the costs indicated, consistent with the feasibility study. The cost estimate has been